

HYDROTREATING OF COMPONENTS FOR REFINERY  
BLENDING OF TRANSPORTATION FUELS

ABSTRACT OF THE INVENTION

- 5        Economical processes are disclosed for the production of  
components for refinery blending of transportation fuels by  
selective hydrogenation of sulfur-containing and/or nitrogen-  
containing organic compounds contained in mixtures of  
hydrocarbons which are liquid at ambient conditions. Integrated  
10    hydrotreating processes of this invention advantageously provide  
their own source of high-boiling hydrogenation feedstock derived,  
for example, by fractionation of hydrotreated petroleum distillates.  
The high-boiling hydrogenation feedstock consisting essentially of  
material boiling between about 200° C. and about 425° C. and  
15    having a sulfur content up to about 2,500 ppm, is contacted with a  
gaseous source of dihydrogen at hydrogenation conditions in the  
presence of a hydrogenation catalyst which exhibits a capability to  
enhance the incorporation of hydrogen into one or more of the  
sulfur-containing and/or nitrogen-containing organic compounds  
20    and under conditions suitable for hydrogenation of one or more of  
the sulfur-containing organic compounds, thereby producing a  
product comprising a mixture of hydrocarbons and other organic  
compounds and having a sulfur content less than about 35 ppm of  
sulfur. Advantageously, all or a portion of the product is blended  
25    with a low-boiling fraction of a hydrotreated distillate to produce a  
distillate fuel having a sulfur content of less than 15 ppm.
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